Rec'd PCT/PTO 11 OCT 2005

INTERNATIONAL SEARCH REPORT

Intel nal Application Nd 0/552805
PCT/I B2004/050393

A. CLAS	SSIFICATION OF SUBJECT MATTER		PC1/182004/050393
IPC	7 G06F9/50 G06F9/48		
According	(In International Patent Classification upon		
	g to International Patent Classification (IPC) or to both national class	ssification and IPC	
Minimum	documentation searched (classification system followed by classi	fication symbols)	
IPC 7	G06F		
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Document	tation searched other than minimum documentation to the extent the	nat such documents are include	d in the fields searched
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Electronic	data base consulted during the international search (name of data	base and, where practical, se	arch terms used)
EPO-Ir	nternal, INSPEC		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
X	NARLIKAR G J ET AL: "SPACE-EFF	ICIENT	1,3,4,
	IMPLEMENTATION OF NESTED PARALL ACM SIGPLAN NOTICES, ASSOCIATIO	ELISM"	14-20
	COMPUTING MACHINERY, NEW YORK,	US.	
	vol. 32, no. 7, 1 July 1997 (19	97-07-01),	
	pages 25-36, XP000701966 ISSN: 0362-1340		
	First full paragraph of		
	page 26, left-hand column		
Ì	Section 2 "Model of Parallelism paragraph of section 3 on	" and first	
	page 27		
	Paragraph bridging pages 27-28		
Y			2 5,6
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X Furthe	er documents are listed in the continuation of box C.	Patent family memb	ers are listed in annex.
Special cate	egories of cited documents :	T later desument authlich	
A" documen	at defining the general state of the art which is not	or priority date and not i	l after the international filing date in conflict with the application but principle or theory underlying the
considered to be of particular relevance E* earlier document but published on or after the international		invention	
ning care L* document which may throw doubts on priority claim(s) or		cannot be considered n	levance; the claimed invention ovel or cannot be considered to o when the document is taken alone
citation or other special reason (as specified)		"Y" document of particular re	levance: the claimed invention
O" documen other me	at referring to an oral disclosure, use, exhibition or easy	COCCUMENT IS COMBINED Y	involve an inventive step when the with one or more other such docu- n being obvious to a person skilled
P [*] document published prior to the international filing date but later than the priority date claimed		in the art.	
	tual completion of the international search	*&" document member of the Date of mailing of the inte	
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1 June 2005		3	0.08.05
ame and mailing address of the ISA		Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		
	Tel. (+31-70) 340-2040, Tx. 31 651'-épo nl, Fax: (+31-70) 340-3016	Ross, C	
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INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/050393

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		PCT/IB2004/050393	
Category °		Delay and to the second	
Υ		Relevant to claim No.	
	DATABASE INSPEC [Online] THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 2001, STREIT A: "On job scheduling for HPC-Clusters and the dynP scheduler" XP002329479 Database accession no. 7307055 abstract Section 5 "The dynP Scheduler": page 62 - page 63 -& PROCEEDINGS OF INTERNATIONAL IEEE CONFERENCE ON HIGH PERFORMANCE COMPUTING - INDIA 17-20 DEC. 2001 HYDERABAD, INDIA, 20 December 2001 (2001-12-20), pages 58-67, XP002329478 High Performance Computing - HiPC 2001. 8th International Conference. Proceedings (Lecture Notes in Computer Science Vol.2238) Springer-Verlag Berlin, Germany ISBN: 3-540-43009-1	2	
	ENGELSCHALL R S: "pth GNU Portable Threads" PTH MANUAL, 17 February 2003 (2003-02-17), XP002315713 page 2, line 1 - line 12 Item "preemptive vs. non-preemptive thread scheduling": page 3 Items "int pth_suspend() and "int pth_yield()": page 10	1,3,4, 14-20	
	JIMAN HONG ET AL: "On the choice of checkpoint interval using memory usage profile and adaptive time series analysis" DEPENDABLE COMPUTING, 2001. PROCEEDINGS. 2001 PACIFIC RIM INTERNATIONAL SYMPOSIUM ON SEOUL, SOUTH KOREA 17-19 DEC. 2001, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 17 December 2001 (2001-12-17), pages 45-48, XP010585360 ISBN: 0-7695-1414-6 abstract First and last paragraphs of section 2 "Checkpoint based on memory usage profile": page 45 - page 46; figure 1	1,3,4, 14-20	

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INTERNATIONAL SEARCH REPORT

International application No. PCT/IB2004/050393

Box II Observations where certain claims were found	<u> </u>			
Box II Observations where certain claims were found unsearchable (Continu	ation of item 2 of first sheet)			
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Claims Nos.: because they relate to parts of the International Application that do not comply with the an extent that no meaningful International Search can be carried out, specifically:	prescribed requirements to such			
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second				
Box III Observations where unity of invention is lacking (Continuation of item 3	of first sheet)			
This International Searching Authority found multiple inventions in this international application, a	as follows:			
see additional sheet				
As all required additional search fees were timely paid by the applicant, this International searchable claims.	Il Search Report covers all			
As all searchable claims could be searched without effort justifying an additional fee, this of any additional fee.	Authority did not invite payment			
3. As only some of the required additional search fees were timely paid by the applicant, this covers only those claims for which fees were paid, specifically claims Nos.:	is International Search Report			
4. No required additional search fees were timely paid by the applicant. Consequently, this trestricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6, 14-20	International Search Report is			
Remark on Protest The additional search fees were accompanied the payment				

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6, 14-20

Methods and computer program product for task scheduling based on memory usage. Scheduling scheme based on co-operative multitasking, where preemption points are specified in each task, typically at points in task with low memory usage.

2. claims: 7-13

Devices and method steps for evaluating whether system has enough memory to process the offered load and subsequent selection and (preemptive) suspension of memory intensive tasks.